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PATENT

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(Date of Deposit)  
KAREN G. KASS

Name of applicant, assignee, or Registered Rep.  
Karen Kass 4/26/01  
Signature Date

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANTS: Russell, Dale William                      EXAMINER: TBA  
SERIAL NO.: 09/785,719                                      GROUP: TBA  
FILED: 02/16/2001    CASE NO.: CML00012H  
ENTITLED: AN INTERACTIVE TOOL FOR SEMI-AUTOMATIC CREATION  
OF A NATURAL LANGUAGE GRAMMAR FROM A DOMAIN  
MODEL

Motorola, Inc.  
Corporate Offices  
1303 E. Algonquin Road  
Schaumburg, IL 60196  
April 26, 2001

**RESPONSE TO NOTICE OF OMITTED ITEMS  
AND PRELIMINARY AMENDMENT**

Assistant Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

Sir:

In response to the Notice of Omitted Items in a Nonprovisional Application mailed April 20, 2001, applicants confirm that all the drawings originally mailed to the Patent Office in the present application include all Figures, that no Figure 1B was included, and that references to Figure 1B in the specification are in error.

Prior to examination, please amend the above-identified application as follows:

#### **IN THE SPECIFICATION**

Please substitute the following for the paragraph beginning at page 1, line 7:

The present invention is related to U.S. Patent Application No. 09/785,893 (Attorney Docket No. CML00013-H) entitled “An Interactive Tool For Semi-Automatic Creation of a Domain Model” to Dale W. Russell, filed coincident herewith and assigned to the assignee of the present application.

Please substitute the following for passage at page 2, lines 30-31:

Figure 1 shows a flow diagram wherein a new grammar is derived from a grammar templated;

Please substitute the following for the paragraph beginning at page 3, line 14:

A domain model is created as described in U.S. Patent Application No. 09/785,893 (Attorney Docket No. CML00013-H) entitled “An Interactive Tool for Semi-Automatic Creation of a Domain Model” to Dale W. Russell, filed coincident herewith, assigned to the assignee of the present application and incorporated herein by reference. From this domain model, the preferred embodiment of the present invention automatically creates default grammar rules that are suggested to the developer. Then, the developer has the option of accepting, rejecting, augmenting or revising the default rules and testing their coverage using the present invention.

Please substitute the following for the paragraph beginning at page 3, line 1:

Figure 1 is a flow diagram of the preferred embodiment method 100 of induction of a grammar from a domain model. First, in step 102, a new grammar is created. Initially, the new grammar is empty. Then, in step 104, a template grammar is opened. The template grammar includes parameterized general purpose rules that are to be instantiated. In step 106, instances are created from general purpose grammar rules and, the general purpose grammar rule instances are added to the new grammar. In step 108, an umbrella rule is created for each of the broad category of queries in the new grammar. Each umbrella rule subsumes the rules for that type of query. The umbrella rules each include domain object independent non-terminals on the left-hand side relating the rule to a broad category of rules. The right-hand side is a set of expansions of corresponding non-terminals. These expansions are each a domain object-specific substantiation of the broad category.

#### REMARKS

The specification has been amended to correct reference to Figure 1. The specification has also been amended to include a missing serial number in reference to a application filed concurrent with the present application.

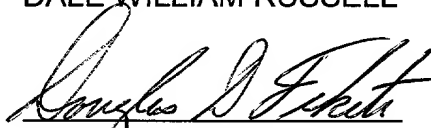
If it would be helpful in advancing the prosecution of his application, the examiner is urged contact the undersigned at the phone number given.

Respectfully submitted,  
DALE WILLIAM RUSSELL

Mail all correspondence to:

**.CUSTOMER NO.: 22917**

By:

  
Douglas D. Fekete  
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Phone: (847) 538-2447  
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MARKED UP COPY OF AMENDMENT

Amend paragraph beginning at page 1, line 7, as follows:

The present invention is related to U.S. Patent Application No. 09/785,893 (Attorney Docket No. CML00013-H) entitled “An Interactive Tool For Semi-Automatic Creation of a Domain Model” to Dale W. Russell, filed coincident herewith and assigned to the assignee of the present application.

Amend paragraph beginning at page 2, lines 30-31, as follows:

[Figures 1 A-B show] Figure 1 shows a flow diagram wherein a new grammar is derived from a grammar templated;

Amend paragraph beginning at page 3, line 1:

[Figures 1 A-B are] Figure 1 is a flow diagram of the preferred embodiment method 100 of induction of a grammar from a domain model. First, in step 102, a new grammar is created. Initially, the new grammar is empty. Then, in step 104, a template grammar is opened. The template grammar includes parameterized general purpose rules that are to be instantiated. In step 106, instances are created from general purpose grammar rules and, the general purpose grammar rule instances are added to the new grammar. In step 108, an umbrella rule is created for each of the broad category of queries in the new grammar. Each umbrella rule subsumes the rules for that type of query. The umbrella rules each include domain object independent non-terminals on the left-hand side relating the rule to a broad category of rules. The right-hand side is a set of expansions of corresponding non-terminals. These expansions are each a domain object-specific substantiation of the broad category.

Amend paragraph beginning at page 3, lines 14, as follows:

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